



## Akamai Internship Symposium: Hilo

Friday Aug 2, 2024 9:00am-12:00pm

University Classroom Building, University of Hawai'i at Hilo, HI

### Introduction & Opening Comments - UCB100

**Lisa Hunter**, *Director, Akamai Workforce Initiative, Univ. of California Observatories*

**Bonnie Irwin**, *Chancellor, University of Hawai'i at Hilo*

Intern presentations will occur in two concurrent sessions

#### Session 1

**Julia Hutchison, Subaru Telescope** -  
*Increasing the Functionality of Subaru's  
Telescope Control Simulator*

**Maile Brilhante, Subaru Telescope** -  
*Modernizing Spectrographic Data Reduction  
Software for Subaru Telescope*

**Clark Lane Acohido, Gemini Observatory** -  
*Replicating IRAF Functions in Python*

**Emma Carrier, Gemini Observatory** -  
*Improving MUSE/VLT Data Cube  
Post-Processing for Optimal Source Detection*

**Kawika Naweli, Gemini Observatory** -  
*Migrating Gemini Archive to an Accessible and  
Secure Web-Based Application*

~ BREAK ~

#### Session 2

**Ian Ogata, Submillimeter Array** - *Testing  
and Analyzing a Radio Telescope Transporter  
Hydraulics System*

**Wilson Lau, Gemini Observatory** -  
*Redesigning the Gemini Dome Lateral Guide  
Rollers for Accessibility*

**Dalten Morales-Pang, Academia Sinica  
Institute of Astronomy & Astrophysics** -  
*Designing a Weather-Resistant Enclosure for a  
Cryogenic Compressor on SMA*

**Kaniela Pang, Hawai'i Electric Light  
Company** - *Outage Mapping on  
Distribution/Transmission Systems for  
Reliability & Resilience Mitigation Planning &  
Prioritization*

~ BREAK ~



~ PRESENTATIONS CONTINUE AFTER THE BREAK ~

**Session 1**

**Rodel Tagalicud, Institute for Astronomy** -  
*Developing a New Detection Algorithm for  
Optical Telescope Guider Systems*

**Cami Nakagawa, University of Hawai'i at  
Hilo** - *Developing Machine Translation  
Systems to Support Hawaiian Language  
Revitalization*

**Nichole Cavada, Subaru Telescope** -  
*Optimizing Wireless Connectivity: A Wi-Fi  
Upgrade Study for Subaru Telescope*

**Ian Padgett, Institute for Astronomy** -  
*Characterizing Linear Bias Between Galaxy  
and Dark Matter Distributions*

~ PRESENTATIONS CONTINUE AFTER THE BREAK ~

**Session 2**

**Frances Michelle Uy, Gemini Observatory** -  
*Classifying Cloud-Based Threats to Telescope  
Operations with Machine Learning*

**Lenox Covington, USDA ARS Pacific Basin  
Agricultural Research Center** - *Building a  
Machine Learning Training Set Using a  
Hyperspectral Imager to Identify Invasive  
Beetles*

**Ryu Young, Subaru Telescope** - *Designing a  
Portable Test Station for Serial & LAN Devices  
at Subaru Telescope*

**Teal Hoffman, Hawai'i Electric Light  
Company** - *Designing a Motor Operated  
Switch for a HECO Substation*

**Light refreshments to follow**

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The Akamai Workforce Initiative is led by the Institute for Scientist & Engineer Educators at University of California  
Observatories, in partnership with the University of Hawai'i at Hilo.

***Advancing the next generation of Hawaii's science, engineering and technology professionals***